4/34/1 DIALOG(R)File 351:Derwent WPI (c) 2006 Thomson Derwent. All rts. reserv.

010887987 **Image available**
WPI Acc No: 1996-384938/199639
Pressure compensator container for hot water system - has expansion pipe section inside pressure control chamber filled with inert gas which is compressed when pipe section expands
Patent Assignee: SCHERER N (SCHE-I)
Inventor: SCHERER N
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 19504750	A1	19960822	DE 1004750	A	19950214	199639	B

Priority Applications (No Type Date): DE 1004750 A 19950214
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19504750	A1		8	F24D-003/10	

Abstract (Basic): DE 19504750 A

The pressure compensator container comprises an oval housing (1) with flanges (2) at each end to connect into a hot water line. The inside of the housing has a central pipe section (6) of flexible material with the ends clamped into the connecting flanges. The pipe section expands with the increasing water pressure as the water heats.

The trapped volume (5) in the housing is filled with an inert gas, eg. nitrogen, which is compressed as the pipe section expands.

The compensator is strengthened by a central rod through the housing which carries spacers to limit the compression of the flexible pipe section. An impeller mounted on the rod is rotated by the water flow and generates a swirl effect to prevent build-up of limescale and dirt etc.

ADVANTAGE - Provides that no water is collected in the container over a long time.

Dwg.1/5

Derwent Class: Q74
International Patent Class (Main): F24D-003/10
International Patent Class (Additional): F24D-019/10